

INCH-POUND

MIL-DTL-27072/25C
8 December 2000
SUPERSEDING
MIL-C-27072/25B
10 May 1994

DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR
(2 CONDUCTORS) AND SINGLE SHIELDED,
M27072/25JDDA*

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-27072C.

REQUIREMENTS:

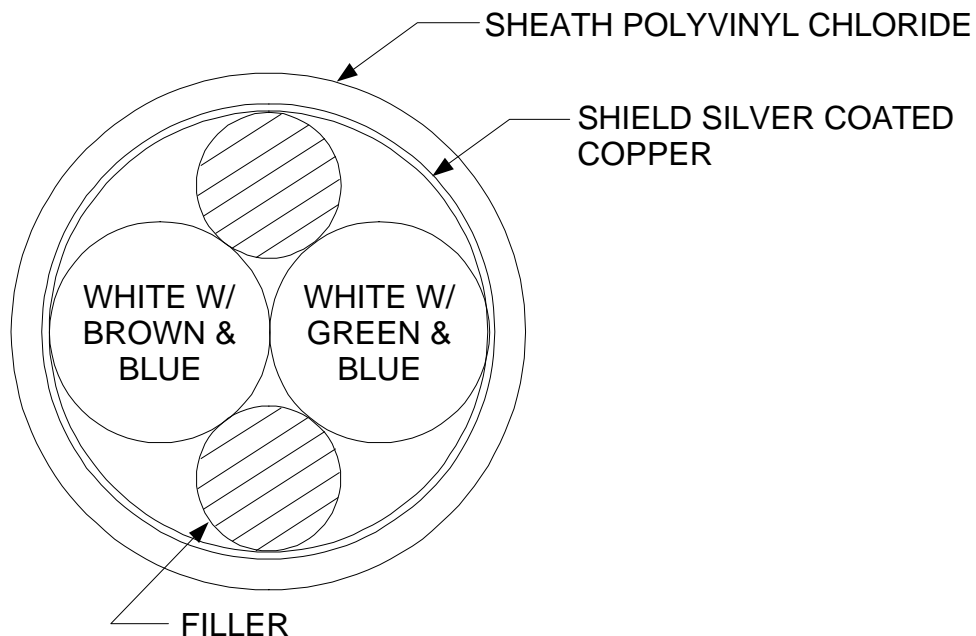


FIGURE 1. Cable configuration.

*The complete part number requires a color code designator (see table I).

MIL-DTL-27072/25C

Design and construction:	See figure 1
Number of conductors:	2
Temperature rating:	105 °C
Components:	
Basic wire:	M22759/11-20* (formerly M16878/4BGE***) or NEMA HP-3EWBGE*, (formerly M16878/21BGE***)(See table I.)
Conductor:	Silver coated copper
Primary insulation:	Polytetrafluoroethylene
Colors:	White with brown and blue tracers White with green and blue tracers
Jacket over insulation:	Not applicable
Filler:	
Material:	In accordance with MIL-DTL-27072
Lay:	1.0 inches
Cabling:	Not applicable
Binder tape material:	Not applicable
Shield:	
Material:	Silver coated copper
Gauge:	36 AWG
Braid angle:	20 to 40 degrees
Jacket undershield:	Not applicable
Sheath:	
Material:	Polyvinyl chloride
Wall thickness:	.030 inch nominal
Tensile strength:	In accordance with table V of MIL-DTL-27072
Ultimate elongation:	In accordance with table V of MIL-DTL-27072
Accelerated aging:	In accordance with table V of MIL-DTL-27072
Color:	See table IV of MIL-DTL-27072
Finished cable:	See table I
Cold bend:	Mandrel size in accordance with table XIII of MIL-DTL-27072
Dielectric withstanding voltage:	2,000 V rms
Conductor resistance:	In accordance with basic wire specification

Table I. Construction data.

PIN 27072/25	Basic wire except color (reference) M22759/11-20* or NEMA HP3EWBGE*				Finished cable diameter (in.) ±10%
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter (inch)	
JDDA*	20	19	32	.058	.197

Asterisks (*) shall be replaced by the appropriate color designator.

CHANGES FROM PREVIOUS ISSUE: Marginal notations are not used in this revision to identify changes with respect to the previous issues due to the extensiveness of the changes.

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - SH
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC
(Project 6145-2262-006)